

Title (en)

DISCRETE FREQUENCY OPERATION FOR UNIT CAPACITY CONTROL

Title (de)

BETRIEB MIT DISKRETEN FREQUENZEN ZUR EINHEITENKAPAZITÄTSSTEUERUNG

Title (fr)

FRÉQUENCE DE FONCTIONNEMENT DISTINCTE POUR COMMANDE DE CAPACITÉ UNITAIRE

Publication

EP 2321594 A4 20140521 (EN)

Application

EP 09805347 A 20090722

Priority

- US 2009051408 W 20090722
- US 8701608 P 20080807

Abstract (en)

[origin: WO2010017033A2] A variable speed electric drive for use in refrigerant systems (20) includes an electric motor (40) for driving an associated component (22) at a variable speed that is a function of an operating frequency of the motor (40); and a control (42) for supplying alternating discrete drive frequencies to the electric motor to provide a continuously variable speed drive of the associated component (22). The control (42) cycles the drive frequency to the electric motor (40) among the at least two discrete frequencies so that the variable average resultant speed at which the associated component (22) is driven is a function of a combination of the selected at least two discrete frequencies.

IPC 8 full level

F25B 49/02 (2006.01); **F25B 31/00** (2006.01); **H02P 25/098** (2016.01); **H02P 29/00** (2016.01)

CPC (source: EP US)

F25B 49/025 (2013.01 - EP US); **F25B 2500/13** (2013.01 - EP US); **F25B 2600/0253** (2013.01 - EP US); **Y02B 30/70** (2013.01 - EP US)

Citation (search report)

- [XA] US 2006198744 A1 20060907 - LIFSON ALEXANDER [US], et al
- [XAI] JP H11287497 A 19991019 - TOYOTOMI KOGYO CO LTD
- [XA] US 5210684 A 19930511 - NAM DONG Y [KR]
- See references of WO 2010017033A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

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DOCDB simple family (application)

US 2009051408 W 20090722; CN 200980130844 A 20090722; EP 09805347 A 20090722; ES 09805347 T 20090722; JP 2011522103 A 20090722; US 200913057945 A 20090722